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APPLICATION NO	D. F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/625,777 07/26/2000		07/26/2000	Tao Chen	PA000330	7872	
23696	7590	01/21/2005		EXAM	EXAMINER	
•	m Incorpoi	rated	ZIMMERMAN, BRIAN A			
Patents De 5775 More	partment house Driv	re	ART UNIT	PAPER NUMBER		
San Diego	, CA 9212	21-1714	2635			
			DATE MAILED: 01/21/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applic	ation No.	Applicant(s)					
Office Action Commence			5,777	CHEN ET AL.					
	Office Action Summary	Exami	ner	Art Unit					
			Zimmerman	2635					
Period fe	 The MAILING DATE of this communic or Reply 	ation appears on	the cover sheet with	n the correspondence a	ddress				
THE - Exte after - If th - If NO - Failt Any	IORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIC insions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communication of the provision of period for reply specified above is less than thirty (30) of period for reply is specified above, the maximum stature to reply within the set or extended period for reply we reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	CATION. 37 CFR 1.136(a). In no nication. days, a reply within the utory period will apply an till, by statute, cause the	o event, however, may a rep statutory minimum of thirty d will expire SIX (6) MONTI application to become ABA	oly be timely filed (30) days will be considered time HS from the mailing date of this of NDONED (35 U.S.C. § 133).					
Status									
1)🖂	Responsive to communication(s) filed	on 26 July 2004							
2a)□		n)⊠ This action is							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims			•					
4)⊠ 5)⊠ 6)⊠ 7)□	 Claim(s) 15-25,28-43 and 46-50 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) 29 and 47 is/are allowed. Claim(s) 15-25,28,30-43,46,48-50 is/are rejected. 								
Applicat	ion Papers								
9)[The specification is objected to by the	Examiner.							
10)	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)	The oath or declaration is objected to I	by the Examiner.	Note the attached	Office Action or form P	TO-152.				
Priority (under 35 U.S.C. § 119								
a)	Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority do a claim for Certified copies of the priority do a copies of the priority do application from the International Cee the attached detailed Office action	ocuments have b ocuments have b the priority docu al Bureau (PCT F	een received. een received in Appenents have been re Rule 17.2(a)).	plication No eceived in this National	Stage				
A44 - 1	<i>u</i>)								
Attachmen	t(s) e of References Cited (PTO-892)			(DTC 11-1					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO	D-948)		mmary (PTO-413) Mail Date					
3) 🔲 Infori	mation Disclosure Statement(s) (PTO-1449 or PT r No(s)/Mail Date	ro/SB/08)		ormal Patent Application (PT	O-152)				

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EXAMINER'S RESPONSE

Status of Application

In response to the applicant's amendment received on 7/26/04. The examiner has considered the new presentation of claims and applicant arguments in view of the disclosure and the present state of the prior art. And it is the examiner's position that claims 15-25,28,30-43,46,48-50 are unpatentable for the reasons set forth in this office action:

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Allowable Subject Matter

1. Claims 29 and 47 are allowed.

Claim Rejections - 35 USC § 112

2. Claims 21,24,39,42 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Support could not be found in the specification as originally filed, for processing in serial as claimed.

Claim Rejections - 35 USC § 103

Claims 15-18,20-28,30-36,38-46,47-50 are rejected under 35 U.S.C.
 103(a) as being unpatentable over Bruckert (5920549), Ghosh (6018667), Willey (6138034), and Tiedemann (6216004).

Bruckert shows searching a plurality of pilot channels associated with a plurality of base stations to choose the "best" base station(s). Then the paging channels from the best base stations are further used to set up a call. Bruckert differs from the claimed invention in that it does not show the paging channels (from the plurality of base stations) in substantially overlapping time slots. Bruckert shows soft combining the best base station signals into a composite received signal (see col. 8 lines 33-45) and making (decoding) decisions based upon the composite signal. Bruckert shows the active set of base stations are monitored and demodulated simultaneously. See col. 4 lines 49-57.

In an analogous art, Ghosh shows the advantages of having neighboring base stations synchronized to each other. Synchronized base stations imply that the paging channels substantially overlap. This decreases acquisition time. See col. 2 lines 10-22.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have synchronized the paging channels of adjacent base stations in Bruckert since Ghosh shows this reduces acquisition time.

In an analogous art, Willey teaches the use of a quick paging channel, which reduces idle handoffs. See col. 1 lines 25-35. Therefore, it would have

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been obvious to one of ordinary skill in the art at the time of the invention to have used a quick paging channel in the above-modified system since such would decrease idle handoffs.

In an analogous art, Tiedemann shows a system that uses soft handoff on common paging channels. This permits the receiver to receive the same "common" channel messages from a plurality of base stations during the transition or handoff time. Soft handoffs provide improved signal quality at the edges of cell coverage. Thresholds levels are used to select a base station during transition see col. 3 lines 25+. Therefore, it would have been obvious to have used the soft handoff common channel scheme offered by Tiedemann in order to improve signal quality at the edge of cell coverage.

Regarding the serial processing claim limitations, the examiner takes official notice that such processing is a common processing technique and would have been obvious to one of ordinary skill in the art.

Response to Arguments

Applicant's arguments filed 7/26/04 have been fully considered but they are not persuasive.

The applicant argues that the references do not simultaneously monitor each of the quick paging channels..." As pointed out above, Bruckert does show the active set of base stations monitored and demodulated simultaneously. See col. 4 lines 49-57. When combined, the teachings would provide for a mobile station that monitors the QPCH bits to decrease idle handoffs. Additionally, such

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a system (according to the listed teaching references) would monitor more than one page channel (including QPCH bits) and simultaneously process these multiple channels to improve signal quality at the edge of cell coverage.

In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, the motivation for combing the teachings is set forth in the rejection above.

Furthermore, Tiedemann uses soft handoff that monitors the signals from a list of neighboring base stations simultaneously to improve overall SNR.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian A Zimmerman whose telephone number is 571-272-3059. The examiner can normally be reached on Off every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Horabik can be reached on 571-272-3068. The fax

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phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Brián A∕Zimmerman Primary Examiner Art Unit 2635